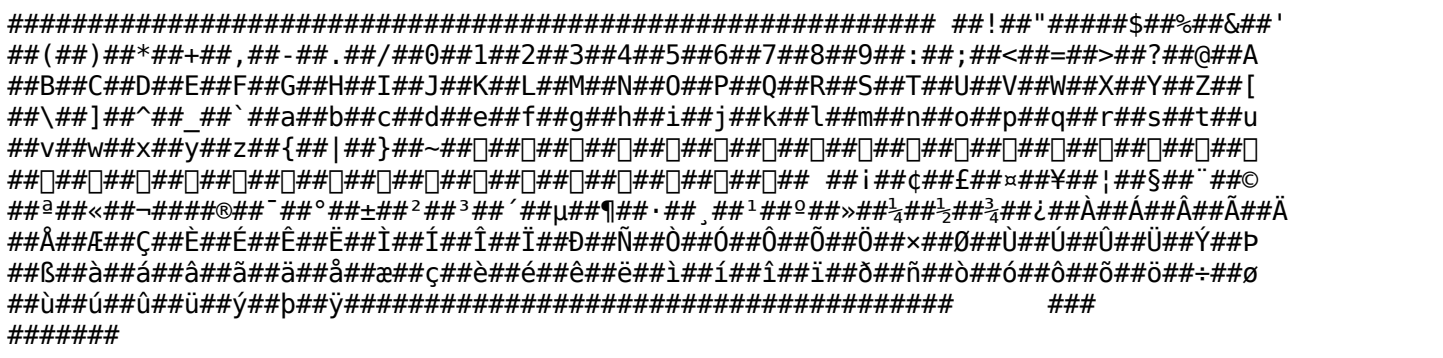

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      ÿÿ####ÿÿ#####ÿ##ÿÿd#########d#########@###ALL                46.00 qt.
(43.65 liters)       Engine Filter        (Refill Capacity)ALL      4 qt. (3.78
liters)        Engine Bypass Oil Filter      (Refill Capacity)ALL    14.00 qt.
(13.24 liters)       Cooling System    (Refill Capacity)ALL    65 qt. (81.49
liters)        Fuel 118 gal tank (446.63 liters)ALL     Usable 110 gal (416.35
liters)        Power Steering ReservoirALL        2 qt. (1.8 liters)      Winch
ReservoirM916        andM920     42 gal (158.97 liters)M916andM920       5 qt.
(4.73 liters)        Front AxleM915M916thruM920         27 pt. (12.78 liters)
```

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#ÿÿd#########d#########É###TRUCK, UTILLITY: CARGO/TROOP CARRIER, 1-1/4-TON,4X4,
M998 (2320-01-107-7155);TRUCK, UTILLITY: CARGO/TROOP CARRIER, 1-1/4-TON,4X4,
W/WINCH, M1038 (2320-01-107-7156);TRUCK, UTILITY: TOW CARRIER, ARMORED, 1-1/4-
TON,4X4, M966 (2320-01-107-7153);TRUCK, UTILITY: TOW CARRIER, ARMORED, 1-1/4-
TON,4X4, W/WINCH, M1036 (232-01-107-7154);TRUCK, UTILITY: TOW CARRIER,
W/SUPPLEMENTAL ARMOR,1-1/4-TON, 4X4, M1045 (2320-01-146-7191);TRUCK, UTILITY:
TOW CARRIER, W/SUPPLEMENTALARMOR, 1-1/4-TON, 4X4, W/WINCH, M1046, (2320-01-146-
7188);TRUCK, UTILITY: ARMAMENT CARRIER, ARMORED,1-1/4-TON, 4X4, M1045 (2320-01-
128-9551);TRUCK, UTILITY: ARMAMENT CARRIER, W/SUPPLEMENTALARMOR, 1-1/4-TON, 4X4,
M1043 (2320-01-146-7190);TRUCK, UTILITY: ARMAMENT CARRIER, W/SUPPLEMENTALARMOR,
1-1/4-TON, 4X4, W/WINCH, M1044 (2320-01-146-7189);TRUCK, UTILITY: S250 SHELTER
CARRIER,4X4, M1037 (2320-01-146-7193);TRUCK, UTILITY: S250 SHELTER CARRIER, 4X4,
W/WINCH, M1042 (2320-01-146-7187);TRUCK, AMBULANCE: 2-LITTER, ARMORED,4X4, M966
(2310-01-111-2275);TRUCK, AMBULANCE: 4-LITTER, ARMORED,4X4, M966 (2310-01-111-
2275);TRUCK, AMBULANCE: 2-LITTER, SOFT TOP,4X4, M1035 (2310-01-146-7194)APPROVED
FOR PUBLIC RELEASE, DISTRIBUTION IS UNLIMITED%
```

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#é###OE/HDO-LUBRICATING OIL,                INTERNAL COM-                BUSTION
ENGINE,                TACTICAL SERVICE               (MIL-L-2104)      OEA-
LUBRICATING OIL                INTERNAL COM-                BUSTION ENGINE,
(ARCTIC)                (MIL-L-46167)                OIL CAN POINTS
CRANKCASE:                W/O FILTER                              W/FILTER
DRY SYSTEM                (INCL. OIL COOLER)     #
```

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#¥###DEXTRON II                   TRANSMISSION              DRY
DRAIN AND FILL            TRANSFER CASETOTALSTEERING SYSTEMWITH STEERING
COOLERO
```

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#####µ###BFS-BRAKE FLUID, SILI-        CONE, AUTOMOTIVE        ALL WEATHER,
OPER-        ATIONAL AND        PRESERVATIVE        (MIL-B-461676)BRAKE MASTER
CYLINDERTOTAL BRAKESYSTEMO

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%#§÷e#«ùÿÿ####ÿÿ#####ÿ##ÿÿd#########d#########t###C/MR Change gearlubricant only
whenrequired by mainte-nance repair action,or if contaminatedby other materials.

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#Ø###3/S-3,000 miles***(4,800 km) orsemiannually(6 months), which-ever comes
first.6/A-6,000 miles(9600 km) orannually(12 months), which-ever comes first.
12/B-12,000 miles(19,200 km), which-ever comes first.
```

####ÿ□#ÿÿd#########d#########1##□##xøô#ã##
ÿÿ####ÿÿ#####ÿ##ÿÿd#########d#########§###*      OE/HDO 15/40 (Grade 15W-40)
lubricant may be used when expected temperatures are above +5oF (-15oC).**    If
OEA lubricant is required to meet the temperature ranges prescribed in the KEY,
then the OEA lubricant        is to be used in place of OE/HDO 10 lubricant for
all temperature ranges.***  If operating conditions are severe or abnormal,
service chassis lubrication points at 1,000 miles (1,600 kilometers)#

```
##########################ÿ□#ÿÿd#########d#########1##□###øÛøeú©ú##
##########ÿ□#ÿÿd#########P#########F###Front Geared HubFill and Level(Check
level)(See note 9)(LV-S) (0)
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      ####ÿ□#ÿÿd#########P############ÿ□#ÿÿd#########P#######
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#N###Power SteeringReservoirFill and Level(Check Level)(See note 11)(LV-Y) (C)
```

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      ÿÿ####ÿÿ#####ÿ##ÿÿd#########d#########V###NOTEA PREFERENCE TO THE
LOCALIZED VIEW (LV) ISPROVIDED AFTER LUBRICATION POINT ENTRY
```

##########################ÿ□#ÿÿd#########d#########3##□##Hø¢öÎÿ ¢ÿÿÿ####ÿÿ#####ÿ##ÿÿd#########d######### ###1.  Intervals.  This LO complies with DA programming to extend intervals and conserve lubricants.  When practicable, lubrication services will be made to coincide with the vehicle□s Semiannual (□S□) Preventive Maintenance Service.  For this purpose, a 10% tolerance (variation) in specified lubrication point mileage is permissible. Those vehicles not accumulating 1,000 mi..................... (1,600 km) in a 6-month period will be lubricated at the time of □S□ Preventive Maintenance Service.2.  Army Oil Analysis Program (AOAP).  AOAP does not apply to the M998 series vehicles.3.  For operation of equipment in Protracted Cold Temperatures Below 5oF (-26oC).  Remove lubricants prescribed in key for temperatures above -15oF (-26oC).  Re-lubricate with lubricants specified in key for temperatures below -15oF (-26oC).  If OEA lubricant is required to meet the temperature ranges prescribed in the key, OEA lubricant is to be used in place of OE/HDO 10 lubricant for all temperature ranges where OE/HDO 10 is specified in the key.4.  Crankcase.

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```

CAUTION There are two marks on the dipstick, FULL and ADD 1 QT.The quantity of oil required to raise the oil level from ADD 1 QT mark to FULL mark is 1 qt (0.9l). Do not overfill crankcase. Overfilling will result in damage to engine. If water or metal particles are detected during crankcase draining, notify Direct Support Maintenance personnel before filling crankcase.

NOTE If oil level is above FULL , it may be due to oil cooler drain back. Operate the engine for one minute, shut down , wait one minute, recheck oil level.

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#######3##□##8#°öú##úÿÿ####ÿÿ#####ÿ##ÿÿd#########d#############  Replace oil filter each time crankcase is drained.  Fill crankcase with 8 qt(7.6 l) of engine oil. Crankcase capacity is 7 qt (6.6 l) and oil filter capacity is 1 qt (0.9 l).  Oil is added to crankcase through fill tube which is located on top of engine.

#################
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´#Pÿÿÿ####ÿÿ#####ÿ##ÿÿd#########d#########k###Check crankcase oil level daily. Start engine and visuallycheck for oil leaks at drain plug and oil filter.  Stop engineand allow approximately one minute for oil to drain backinto oil pan; recheck oil level with dipstick.  On vehicles with deep water fording, the dipstick has a seal which fits into the opening of the dipstick tube.  The dipstick handle must be turned counterclockwise to be released before dipstick is withdrawn.  Turn handle clockwise to seat after installing dipstick.  Change oil every 3,000 mi....................... (4,800 km) or semiannually, whichever comes first.5.  Engine Oil Filter.#

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#ÿÿ#####ÿ##ÿÿd#########d############ CAUTIONIf water or metal particles are detected during oilfilter replacement, notify Direct Support Maintenance personnel before refilling crankcase.

NOTEReplace oil filter each time crankcase is drained.

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###d#########1##□##X###Đ      @#ÿÿ####ÿÿ#####ÿ##ÿÿd#########d#########+###Change
oil filter every 3,000 mi........................ (4,800 km) orsemiannually,
whichever occurs first.6.  Fuel Filter.  Replace filter element every 6,000
mi...................................(9,600 km) or annually, whichever occurs
first.  Replacewith separator element if unserviceable.#
```

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##□###ù£õ¦#)öÿÿ####ÿÿ#####ÿ##ÿÿd#########d#########F###Table 2-2.  Preventive
Maintenance Checks and Services for Model HMMWV
```

##########################ÿ□#ÿÿd#########d#########1##□##¸ýÈúà#Øýÿÿ####ÿÿ#####ÿ# #ÿÿd#########d#########Â###Operating a vehicle witha tire in an under-inflated condition or with a ques-tionable defect may leadto premature tire failureand may cause equipmentdamage and injury ordeath to personnel.

```
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#######1##□##¸ýÃþõ#{ÿÿÿ####ÿÿ#####ÿ##ÿÿd#########d#########1###Visually check
tire presenceand under-inflation.5
```

##########################ÿ□#ÿÿd#########d#########1##□##¾ýi#;###ÿÿ####ÿÿ#####ÿ# #ÿÿd#########d#########æ###If leakage is detected, investi-gation is needed to determinethe location and cause of theleak.a.  Check body for visualdamage that would impairoperation of the vehicle.b.  Look under vehicle forevidence of fluid leakage.

##########################ÿ□#ÿÿd#########d#########1##□##$þ¶#$#Æ
ÿÿ####ÿÿ#####ÿ##ÿÿd#########d#########¨###If engine has beenrecently operated, do notremove radiator cap tocheck coolant level.Cooling system is underpressure and escapingsteam or coolant cancause burns.

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```

BEFORE OPERATION:      1. Operator arctic winterization kit (para. 2-32).2.  Scrape off any ice accumulated on vehicle. 3.  Remove ice and snow from area around air cleaner intake cap.DURING OPERATION:  1.  Place transmission shift lever in □D□ (drive) and transfer    case shift lever in □H/L□ (high lock range).  Place vehicle in  motion slowly to prevent wheels from spinning. 2.  If rear skidding occurs:           a.  Let up on accelerator pedal.         b.  Turn steering wheel in direction of skid until         control has been regained.         c.  Apply brake pedal in a gradual pumping         manner.AFTER OPERATION: 1.  Remove all ice an snow from underside of vehicle and fuel  tank filler cap.  2.  Drain fuel filter (para. 3-10)

```
ÿÿÿÿÿÿ##4###ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ#####ht½ÿ#######*##ÿÿÿÿÿÿ#□□###ºb ÿÿÿÿÿ
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